IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claims 1-13 (canceled).

Claim 14 (previously presented): A compressor, comprising:

a safety device for limiting high pressure within a chamber of the compressor, comprising a rupture disk and a pressure relief valve, the rupture disk and the pressure relief valve forming a region there-between, the rupture disk having a first side connected to the compressor chamber and a second side connected to the region, the rupture disk hermetically sealing the chamber from the region until a pressure of the compressor chamber exceeds a predetermined level, the pressure relief valve having a predetermined leakage of atmospheric pressure into the region while the pressure of the compressor chamber is below the predetermined level and configured to allow a slow release of the system pressure after the pressure of the compressor chamber exceeds the predetermined level.

Claim 15 (canceled).

Claim 16 (previously presented): The compressor as recited in claim 14, wherein the rupture disk and the pressure relief valve are arranged in series.

Claim 17 (previously presented): The compressor as recited in claim 16, wherein the compressor chamber is an exhaust chamber, and wherein the rupture disk is pressurized on one side with high pressure from the exhaust chamber and on the other side with the atmospheric pressure.

Claim 18 (previously presented): The compressor as recited in claim 16, wherein the pressure relief valve is configured downstream of the rupture disk from a high pressure side.

Claim 19 (previously presented): The compressor as recited in claim 14, wherein the pressure relief valve is configured to open at a lower opening pressure than a bursting pressure of the rupture disk.

Claim 20 (previously presented): The compressor as recited in claim 14, wherein the pressure relief valve is configured to vent a refrigerant of the compressor to the atmosphere.

Claim 21 (canceled).

Claim 22 (previously presented): The compressor as recited in claim 14, wherein the predetermined leakage is sufficient to prevent a pressure build up in the region when the rupture disk is intact.

Claim 23 (previously presented): The compressor as recited in claim 14, wherein the pressure relief valve includes a valve seat and a valve piston, wherein at least one of the valve seat and the valve piston includes a porous material for providing the predetermined leakage.

Claim 24 (previously presented): The compressor as recited in claim 14, wherein the pressure relief valve comprises a valve seat, a valve piston, and further comprises at least one of a bypass groove, a bypass bore, and surface roughness or regularity at one of the valve seat and valve piston for realizing the defined leakage.

Claim 25 (currently amended): A compressor, comprising:

a safety device for limiting high pressure, wherein the safety device is hermetically sealed until a first response, and wherein the safety device allows a slow release of system pressure after the first response,

wherein ~~a~~ the pressure relief valve has a defined leakage and wherein ~~a~~ the rupture disk is hermetically sealed, the pressure relief valve comprising a valve seat, a valve piston,

and further an elastomer seal that is permeable to a refrigerant at one of the valve seat and the valve piston, the elastomer seal configured to realize the defined leakage.

Claim 26 (previously presented): The compressor as recited in claim 14, wherein the pressure relief valve is configured to slowly release a residual refrigerant of the compressor through a predefined leak in response to the pressure in the air-conditioning system dropping below a set pressure.

Claim 27 (canceled).

Claim 28 (currently amended): A safety device for a compressor in an air-conditioning system of a motor vehicle, the safety device comprising:

a rupture disk in contact with a refrigerant of the air-conditioning system and configured to rupture when a pressure of the refrigerant exceeds a first predetermined pressure; and

a pressure valve disposed in a closed position downstream of the rupture disk, ~~and configured to open at a second predetermined pressure lower than the first predetermined pressure so as to release refrigerant in the event of a rupture of the rupture disk,~~ a predetermined leak being associated with the pressure valve in the closed position so as to allow atmospheric pressure to contact a downstream side of the rupture disk when the rupture disk is intact and configured to allow a slow leak of the refrigerant when the rupture disk is ruptured and when the pressure of the refrigerant is above a ~~the~~ second predetermined pressure, wherein the second predetermined pressure is lower than the first predetermined pressure.

Claim 29 (currently amended): The compressor as recited in claim 14, wherein the pressure relief valve includes an elastomer seal for providing the predetermined ~~defined~~ leakage.

Claim 30 (currently amended): The safety device as recited in claim 28, wherein the pressure relief valve includes an elastomer seal for providing the predetermined ~~defined~~ leakage.

Claim 31 (currently amended): The compressor as recited in claim 14, wherein the pressure relief valve comprises a valve seat, a valve piston, and further comprises a bypass groove at one of the valve seat and valve piston for providing the predetermined ~~defined~~ leakage.

Claim 32 (currently amended): The compressor as recited in claim 14, wherein the pressure relief valve comprises a valve seat, a valve piston, and further comprises a bypass bore at one of the valve seat and valve piston for providing the predetermined ~~defined~~ leakage.

Claim 33 (currently amended): The compressor as recited in claim 14, wherein the pressure relief valve comprises a valve seat, a valve piston, and further comprises surface roughness at one of the valve seat and valve piston for providing the predetermined ~~defined~~ leakage.

Claim 34 (currently amended): The compressor as recited in claim 14, wherein the pressure relief valve comprises a valve seat, a valve piston, and further comprises surface regularity at one of the valve seat and valve piston for providing the predetermined ~~defined~~ leakage.